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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,801	03/16/2006	Hideo Sano	3796.P0050US	3963
22-74 7500 HIMMORE TANIS, P.C. 2026 RAMBLING ROAD			EXAMINER	
			MORILLO, JANELL COMBS	
KALAMAZOO, MI 49008-1631			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			11/03/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Application No. Applicant(s) 10/550,801 SANO ET AL. Office Action Summary Examiner Art Unit Janelle Morillo 1793 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 21 July 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) 3-7 is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1 and 2 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. \_\_\_\_\_.

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## DETAILED ACTION

## Election/Restrictions

Applicant's election with traverse of group I in the reply filed on July 21, 2008 is
acknowledged. The traversal is on the ground(s) that the groups can be searched together
without burden. This is not found persuasive because the invention of group I can be made by
materially different process than the method of group II, and searching the inventions together
would be burdensome on the examiner.

The requirement is still deemed proper and is therefore made FINAL.

## Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
  obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 10-306338A (JP'338).

JP'338 teaches an extruded Al-Cu-Mg-Si alloy with high strength and corrosion resistance (abstract, examples) comprising (in wt%):

0.5-1.5% Si
0.9-1.6% Mg
1.2-2.5% Cu
0.02-0.4% Cr
≤ 0.05% Mn
optionally 0.03-2.0% Zn
balance aluminum (abstract, cl. 2 of JP'338)

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which overlaps the presently claimed ranges of Si, Mg, Cu, Cr, Mn, and Zn (cl. 1 and 2), and wherein the ranges of Si, Mg, Cu meet the instant inequalities (1), (2), (3), and (4). For instance, the ranges of Si+Mg+Cu taught by JP'338: 0.5% Si+0.9%Mg+1.2% Cu=2.6% (minimum) and 1.5+1.6+2.5=5.6% (maximum), which entirely overlaps the claimed range of 3-4%. For equation (2), JP'338 teaches  $Mg \le 1.7$ \*Si, which would be equivalent to 1.7\*1.5 Si=2.55, which is met by JP'338. For equation (3), Mg+Si  $\le 2.7$ %, JP'338 teaches a minimum Mg+Si of 1.4%, which meets said limitation. For equation (4),  $Cu/2 \le Mg \le (Cu/2)+0.6$ %, when Cu=1.4, a corresponding Mg amount for said expression would be  $0.7 \le Mg \le 1.3$ , which strongly overlaps the range of Mg taught by JP'338, and therefore said limitation is met. JP'338 does not mention the microstructural details of said alloy. However, because JP'338 teaches overlapping alloying ranges, together with high strength and corrosion resistance properties, and processed by extrusion, then substantially the same microstructure (grain size, recrystallization) is expected to result for the product of JP'338 as for the instant invention. Therefore it is held that JP'338 has created a prima facie case of obviousness of the presently claimed invention.

Overlapping ranges have been held to be a prima facie case of obviousness, see MPEP § 2144.05. It would have been obvious to one of ordinary skill in the art to select any portion of the range, including the claimed range, from the broader range disclosed in the prior art, because the prior art finds that said composition in the entire disclosed range has a suitable utility. Additionally, "The normal desire of scientists or artisans to improve upon what is already generally known provides the motivation to determine where in a disclosed set of percentage ranges is the optimum combination of percentages," In re Peterson, 65 USPQ2d at 1379 (CAFC 2003).

Once a reference teaching product appearing to be substantially identical is made the basis of a rejection, and the examiner presents evidence or reasoning tending to show inherency, the burden shifts to the applicant to show an unobvious difference. "ITJhe PTO can require an applicant to prove that the prior art products do not necessarily or inherently possess the characteristics of his [or her] claimed product. Whether the rejection is based on inherency' under 35 U.S.C. 102, on prima facie obviousness' under 35 U.S.C. 103, jointly or alternatively, the burden of proof is the same, and its fairness is evidenced by the PTO's inability to

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manufacture products or to obtain and compare prior art products." In re Best, 562 F.2d 1252, 1255, 195 USPQ 430, 433-34 (CCPA 1977)), see MPEP 2112. Applicant has not clearly shown

an unobvious difference between the instant invention and the prior art's product.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Janelle Morillo whose telephone number is (571) 272-1240. The

examiner can normally be reached on 7:30 am- 4:00 pm Mon-Wed.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Roy King/

Supervisory Patent Examiner, Art Unit 1793

/J. M./

Examiner, Art Unit 1793 October 28, 2008